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## RAW SEQUENCE LISTING

DATE: 04/16/2002

PATENT APPLICATION: US/10/083,590

TIME: 16:01:16

Input Set : N:\Crf3\RULE60\10083590.raw

Output Set: N:\CRF3\04162002\J083590.raw

ENTERED

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1 <110> APPLICANT: IATROU, Kostas
2     FARRELL, Patrick J.
3     BEHIE, Leo A.
4 <120> TITLE OF INVENTION: SEQUENCES FOR IMPROVING THE EFFICIENCY OF SECRETION OF
5     NON-SECRETED PROTEINS FROM MAMMALIAN AND INSECT CELLS
6 <130> FILE REFERENCE: 028722-207
7 <140> CURRENT APPLICATION NUMBER: 10/083,590
8 <141> CURRENT FILING DATE: 2002-02-27
9 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/256,694
W--> 11 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-24
14 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/136,421
W--> 15 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-20
16 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/056,871
W--> 17 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-21
18 <160> NUMBER OF SEQ ID NOS: 14
19 <170> SOFTWARE: PatentIn Ver. 2.0
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24 <213> ORGANISM: Artificial Sequence
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27     portion of SEQ ID NO.: 12.
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35 <220> FEATURE:
36 <223> OTHER INFORMATION: Description of Artificial Sequence:Encodes a
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42 <211> LENGTH: 28
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
47     amplification.
48 <400> SEQUENCE: 3
49     gggctaccat ggagaaaaaa atcactgg           28

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53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
57   amplification.
58 <400> SEQUENCE: 4
59   gggtgctcta gaatttctgc cattcatcc                29
61 <210> SEQ ID NO: 5
62 <211> LENGTH: 30
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
67   amplification.
68 <400> SEQUENCE: 5
69   aaaaggatcc atgacttcac acgtactcgc                30
71 <210> SEQ ID NO: 6
72 <211> LENGTH: 29
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
77   amplification.
78 <400> SEQUENCE: 6
79   aaaaggatcc ttcaagcggg cttctactg                29
81 <210> SEQ ID NO: 7
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83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
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86 <223> OTHER INFORMATION: Description of Artificial Sequence:Encodes a
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88 <400> SEQUENCE: 7
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92 <211> LENGTH: 25
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
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102 <211> LENGTH: 31
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence

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105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
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115 <220> FEATURE:
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122 <211> LENGTH: 26
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124 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer for PCR
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131 <210> SEQ ID NO: 12
132 <211> LENGTH: 17
133 <212> TYPE: PRT
134 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence:Has a cleavage
137     site recognized by the protease porcine intestine
138     enteropeptidase.
139 <400> SEQUENCE: 12
140     Pro His His His His His His Gly Gly Gly Asp Asp Asp Asp Lys Asp
141         1             5             10             15
142     Pro
144 <210> SEQ ID NO: 13
145 <211> LENGTH: 1691
146 <212> TYPE: DNA
147 <213> ORGANISM: Heliothis virescens
148 <400> SEQUENCE: 13
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150     caggagacaa attcgcgcag cgtggtcgcc catctggact ccggcattat acgcggcgtg 120
151     ccgcgcctcag cggatggcat caagttcgcc agcttccctag gagtgcctta cgctaagcag 180
152     cctgttgag aactcaggtt taaggagctc gagcctctag aaccttggga taatatcctg 240
153     aacgcaacaa atgaaggacc catctgcttc caaacagatg tattatacgg gaggctcatg 300
154     gcggcaagcg agatgagcga ggcttgcata tacgccaaca ttcattgttc atggcaaagc 360
155     cttccccgag tgagggggac cacaccttta cggcctatcc tgggtgttc atatgggtgga 420
156     ggattgtctt tcggctccgg ccacgaggac ctacacggac cagaatattt ggtcactaag 480
157     aatgtcatcg tcatcacgtt taattacaga ttgaacgtct tcggtttcct gtccatgaac 540

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158      acaacaaaaa tccccgggaa tgccggtctc cgggatcagg taaccctgtt gcgctgggtg 600
159      caaaggaacg ccaagaattt cggaggagac cccagcgaca tcaccatagc ggggcagagc 660
160      gctggtgcat cagctgcgca tctactgact ctttctaaag ctactgaagg tcttttcaaa 720
161      agagegattc tgatgagcgg aacaggaatg agctacttct ttactacttc tccacttttc 780
162      gcggcctaca ttctgaaaca gttgttgcaa atcctgggca atcaacgaga cggatccgaa 840
163      gaaatacatc ggcagctcat cgacctaccg gcagagaaac tgaacgaggc taacgcgcgc 900
164      ctgattgaac aaattggcct gacaaccttc ctccctattg tggaatcccc actacctgga 960
165      gtaacaacca ttattgacga tgatccagaa atcttaatag ccgaaggacg cggcaagaat 1020
166      gttccacttt taataggatt taccagctca gaatgcgaga ctttccgcaa tcgactattg 1080
167      aactttgatc tcgtcaaaaa gattcaggac aatcctacga tcataatacc gcctaaactg 1140
168      ttatttatga ctccaccaga gctgttgatg gaattagcaa agactatcga gagaaagtac 1200
169      tacaacggta caataagtat cgataacttc gtaaaatcat gttcagatgg cttctatgaa 1260
170      taccctgcat tgaaactggc gcaaaaacgt gccgaaactg gtggagctcc actgtacttg 1320
171      taccggttcg cgtacgaggg tcagaacagc atcatcaaga aggtaatggg gctgaaccac 1380
172      gaggggtgctg gccacattga ggacttaacc tatgtgttta aggtcaactc tatgtccgaa 1440
173      gctctgcacg catgccttc tgagaatgat gtgaaaatga agaattctaat gacgggctat 1500
174      ttcttaaatt ttataaagtg cagtcaaccg acatgcgaag acaataactc attggagggtg 1560
175      tggccggcta acaacggcat gcaatacgag gacatttgtt ctcccaccat catcagatcc 1620
176      aaggagtctg cctccagaca acaagacatt atcgagttct tcgacagctt caccagtaga 1680
177      agcccgtttg a                                     1691
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180 <211> LENGTH: 435
181 <212> TYPE: DNA
182 <213> ORGANISM: Human
183 <400> SEQUENCE: 14
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185      cgctcgccca gccccagcac gcagccctgg gagcatgtga atgccatcca ggaggcccg 120
186      cgtctcctga acctgagtag agacactgct gctgagatga atgaaacagt agaagtcac 180
187      tcagaaatgt ttgacctcca ggagccgacc tgcctacaga cccgcctgga gctgtacaag 240
188      cagggcctgc ggggcagcct caccaagctc aagggccctt tgaccatgat ggcagccac 300
189      tacaagcagc actgcctcc aaccccgaa acttccctgt caaccagat tatcaccttt 360
190      gaaagtttca aagagaacct gaaggacttt ctgcttgta tcccccttga ctgctgggag 420
191      ccagtccagg agtga                                     435

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VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10083590.raw

Output Set: N:\CRF3\04162002\J083590.raw

L:11 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:15 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD